For Gaming Equipment, ATMs : CF, CG series
KD2008-CF10A

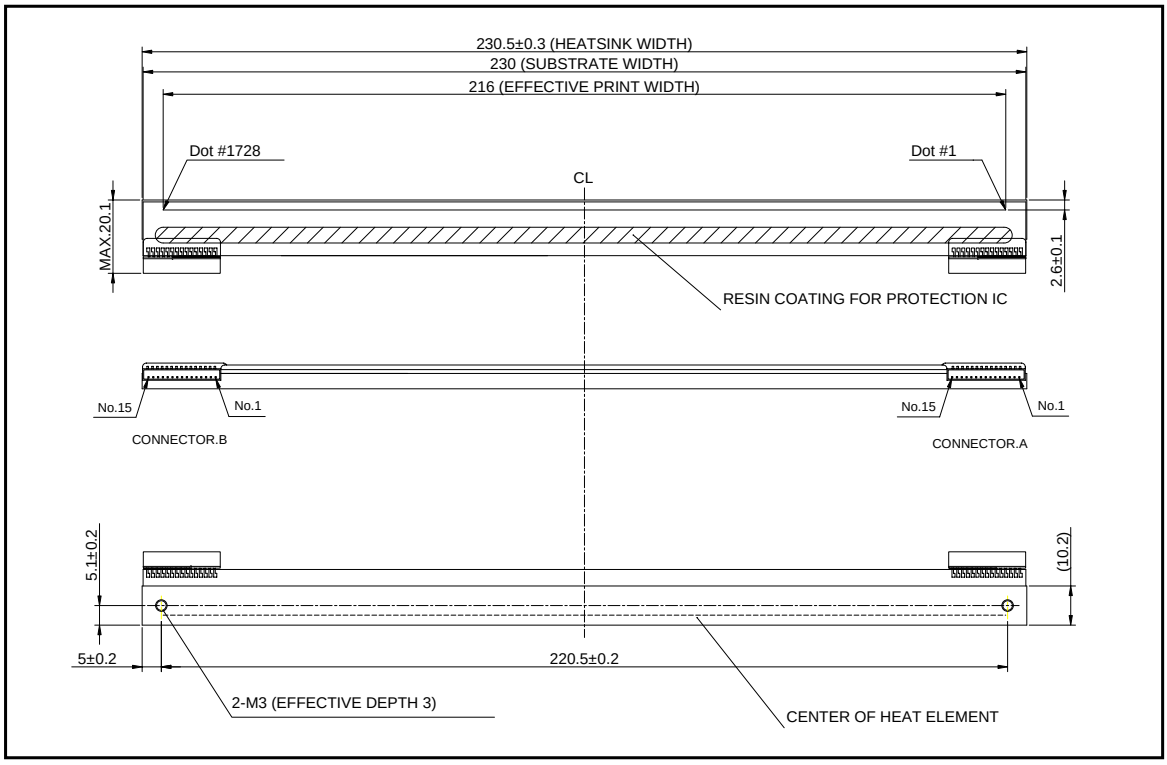
●Applications

Plain-paper printers
Low speed ticket vendors
Measuring terminal printers

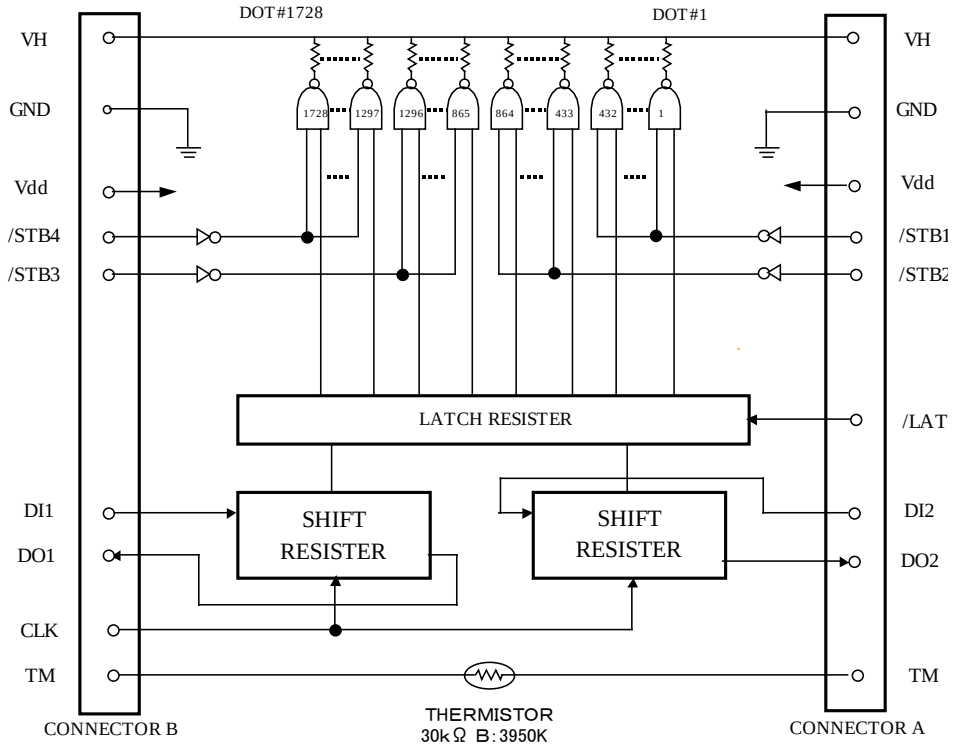
●Features

Utilizing the ideal element structure for each model (CF series: 100mm/s, CG series: 150mm/s) ensures perfect print quality and efficient energy consumption. In addition, the units feature a high-frequency clock, enabling advance control.

●Dimensions (Unit : mm)



●**Equivalent circuit**



/STB : STROBE(LOW ACTIVE)
/LAT : LATCH (LOW ACTIVE)
CLK : CLOCK
DI : DATA IN
DO : DATA OUT
TM : THERMISTOR

DI No.	Dot No.	Dots/DI
DI 1	1728 to 865	864
DI 2	864 to 1	864

STB No.	Dot No.	Dots/STB.
1	1 to 432	432
2	433 to 864	432
3	865 to 1296	432
4	1297 to 1728	432

●Pin assignments

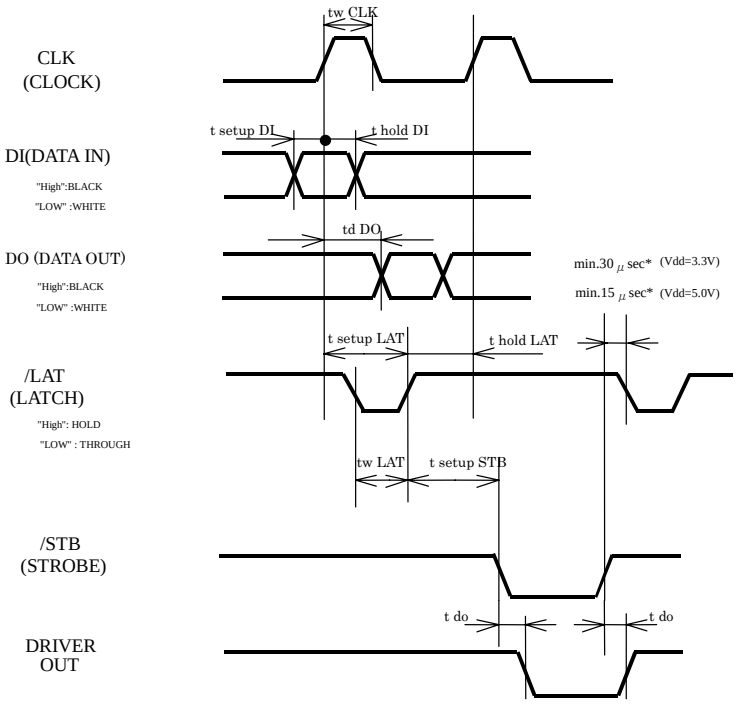
CONNECTOR B

No.	Circuit
1	GND
2	GND
3	GND
4	GND
5	TM
6	V_{DD}
7	/STB3
8	/STB4
9	CLK
10	DI1
11	DO1
12	VH
13	VH
14	VH
15	VH

CONNECTOR A

No.	Circuit
1	VH
2	VH
3	VH
4	VH
5	DI2
6	DO2
7	/LAT
8	/STB1
9	/STB2
10	V_{DD}
11	TM
12	GND
13	GND
14	GND
15	GND

●Timing chart



*If delay time for Driver Out can not be secured enough, there is a possibility that VH would greatly. Please design the circuit so that VH does not exceed peak voltage

●Characteristics

Parameter	Symbol	Typical	Unit
Effective printing width	–	216	mm
Dot pitch	–	0.125	mm
Total dot number	–	1728	dots
Average resistance value	Rave	1000	Ω
Applied voltage	V_H	24.0	V
Applied power	P_O	0.32	W / dot
Print cycle	SLT	1.25	ms
Pulse width	T_{ON}	0.50	ms
Maximum number of dots energized simultaneously	–	864	dots
Maximum clock frequency	–	16	MHz
Maximum roller diameter	–	ϕ20.0	mm
Running life / pulse life	–	50 / 5×10^7	km / pulses
Operating temperature	–	5 to 45	°C

●Electrical characteristic curves

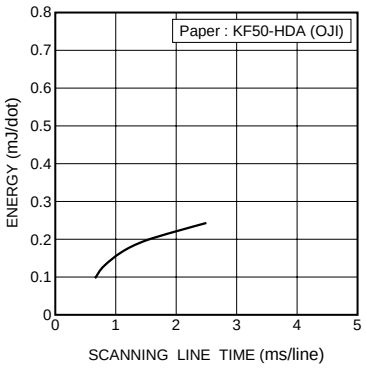


Fig.1 Adaptive speed chart

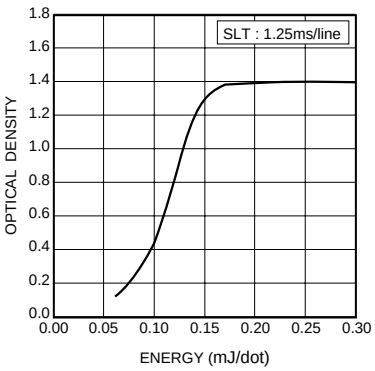


Fig.2 Representative density curve

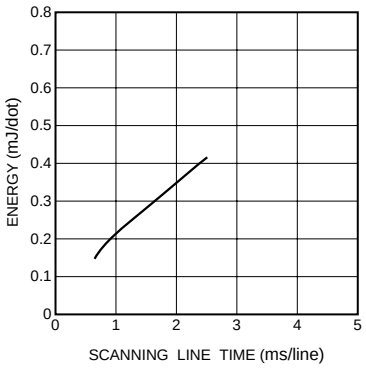


Fig.3 Maximum energy curve

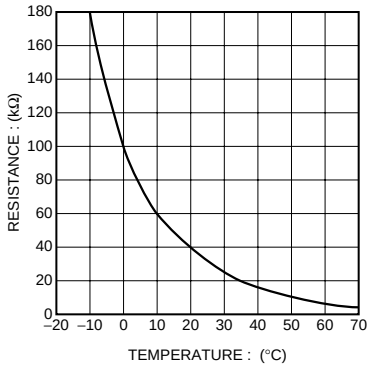


Fig.4 Thermistor curve

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